

## *A Message from President Capilouto*

Consider for a moment your smartphone. Within its aluminum and glass casings are technologies derived from publicly funded federal research. Undergirding all of the apps, services, and software are global platforms and utilities developed through basic and applied scientific discovery.

The Internet was an early project for the Defense Advanced Research Projects Agency (DARPA) – a high-risk, high-reward research arm of the Department of Defense created after the former Soviet Union's launch of Sputnik. GPS was also developed by DARPA and now supports navigation apps and location services tied to countless tools we use every day. Two Stanford students – with support from the National Science Foundation (NSF) – developed a new search algorithm in the 1990's. The company that developed from that early innovation is now known as Google, and is publicly valued at \$387 billion. Voice-recognition software is an early DARPA project, and now supports civilian and industry platforms like Siri. A former UK faculty member, Samuel Hurst, pioneered the earliest touch screen system with publicly funded support for his research.

These innovations are only a small sample of the early-stage, publicly-funded, foundational research projects that now support, not only industries and private business, but entire markets on national and international scales. The NSF found that technology transfer agreements of university research to the private sector yielded an "impact up to \$836 billion in gross industry output, \$388 billion in GDP, and three million jobs" between 1996 and 2010.

In the Commonwealth of Kentucky, more than half of all basic, translational, and applied university-led research happens at the University of Kentucky. Pioneering UK faculty and staff are on the frontlines of the questions of our day. Last year, they earned \$285 million in competitive external grants and contracts, helping propel us toward the top echelons of the nation's research universities.

In 2014, an independent study concluded that UK's research enterprise – fueled by competitive grants and contracts – had an economic impact exceeding \$580 million annually, affecting 8,114 jobs and \$21.3 million in state and local taxes.

To be sure, our research and creative discovery shape industry, create jobs, and broaden our understanding of the artistic, human, and technological world, but that is only one way in which the state's flagship, public, research university serves Kentucky.

In total, UK's \$3.4 billion academic, research, health care, and service enterprise means the Commonwealth of Kentucky gets a return that 12 times its investment of \$280 million.

Our 12,500 full-time employees on our campus, at our hospitals, and across all 120 counties of Kentucky collectively contribute more than \$90 million paid in state and local taxes. And that number continues to grow year after year through the high-wage jobs we're creating and bringing to Kentucky.



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The number of patients served with sophisticated health care by the University of Kentucky has grown more than 95 percent since fiscal year 2003 -- 37,333 patients in our hospitals and 1.4 million visits to our clinics last year alone.

In a report from the Kentucky Council on Postsecondary Education, more than 60 percent of our graduates are employed in Kentucky one year later, while 10 percent choose to continue their education. These are the professionals, community leaders, and taxpayers who stay here and strengthen the economic and civic vibrancy of Kentucky.

These powerful stories highlight some of the specific returns our state receives from its investment in its flagship institution. We are the University for Kentucky. Though our reach and scale have expanded since 1865, UK's future remains inextricably linked with the state we are proud to lead and to serve.

Sincerely,

Eli Capilouto, President

## DanceBlue Raises \$1,631,067.49

After 24 hours of dancing in anticipation, DanceBlue chairs and committee members revealed the 2016 grand fundraising total of \$1,631,067.49 to the nearly 800 student participants and a crowd of supporters. With this year's total, DanceBlue has contributed \$9.8 million to the Golden Matrix Fund and the DanceBlue Kentucky Children's Hospital Pediatric Hematology/Oncology Clinic.



## National Summit on Prescription Drug and Heroin Abuse Spotlights UK Leadership



The spread of prescription drug and heroin abuse in America has escalated to the status of a national epidemic, and the University of Kentucky and UK HealthCare remain at the forefront of a national movement to end the scourge of prescription drug and heroin abuse. As part of fulfilling this important mission, UK sent a delegation of executive, clinical and research leaders to join national thought-leaders and policymakers at the 2016 National Rx Drug Abuse and Heroin Summit, March 28-31 in Atlanta, Georgia.

UK is laying the groundwork for a more widespread and intensive approach to complex

health care through research, translational discovery and care, and clinical delivery. By tapping into a robust network of clinical outreach programs that partner with UK HealthCare and our academic medical center, we're able to connect clinicians to 180 practices across the region – some 10,000 beds.

To support this work, UK faculty are engaged in sophisticated research. In fiscal year 2015, University of Kentucky faculty members were awarded more than \$95 million in research funding from the NIH and more than \$12 million from NIDA, among other federal agencies.

## Rutgers Cancer Center Director Named Dean of the UK College of Medicine



Dr. Robert DiPaola, director of the Rutgers Cancer Institute of New Jersey and Vice Chancellor for Cancer Programs, Rutgers Biomedical and Health Sciences, was recently named dean of the University of Kentucky College of Medicine. DiPaola was selected following a national search, which was co-chaired by Linda Van Eldik, director of UK's Sanders-Brown Center on Aging, and John Walz, dean of the College of Engineering.

Dr. DiPaola has extensive experience in translational research, clinical operations, education and leadership. At Rutgers, he was responsible for all research, clinical and administrative activities of a National Cancer Institute (NCI)-designated Comprehensive Cancer Center and led the successful renewal of NCI designation in 2011. Under his leadership, external research funding increased to more than \$100 million annually. In addition, Dr. DiPaola has maintained continuous funding to support a laboratory focused on Drug Resistance in Cancer Therapy, working on preclinical studies that support translational clinical trials and investigations into prostate cancer drug resistance.

He earned a bachelor's of science degree and his medical degree at the University of Utah; completed an internship and residency in Internal Medicine at Duke University Medical Center; and completed a Fellowship in Hematology-Oncology at the University of Pennsylvania Hospital in Philadelphia.

## UK Alum's Locally Made Cheese Showcases Commitment to Ky. Food Economy

As part of the partnership between Aramark and the University of Kentucky, UK Dining is dedicated to engaging and supporting local businesses. In the first year of the institution's dining contract, not including beverages, UK increased its local food purchases by approximately 20 percent. Moreover, UK is the only university in America with a global food partner who has made a multimillion-dollar commitment to growing the local food economy.

One of those companies is Boone Creek Creamery, which is owned and operated by UK microbiology alumnus Ed Puterbaugh. As a proud Kentuckian and first artisan cheese producer in the state, Puterbaugh not only sells cheese made in-house in his Lexington shop, but also a variety of locally made products in his Kentucky Proud store.

Boone Creek Creamery provides cheese for catered events and football games, and even supply all the mozzarella cheese for pizzas made at two of UK Dining's locations, The 90 and Blazer Cafe.

